

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
27 January 2005 (27.01.2005)

PCT

(10) International Publication Number  
**WO 2005/007857 A1**

(51) International Patent Classification<sup>7</sup>: C12N 15/62, 9/78

(21) International Application Number:  
PCT/IB2004/002505

(22) International Filing Date: 29 June 2004 (29.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
03360087.5 21 July 2003 (21.07.2003) EP  
60/508,274 6 October 2003 (06.10.2003) US

(71) Applicant (for all designated States except US): TRANS-  
GENE S.A. [FR/FR]; 11, rue de Molsheim, F-67000 Stras-  
bourg (FR).

(72) Inventor; and

(75) Inventor/Applicant (for US only): ERBS, Philippe  
[FR/FR]; Les Malteries, 3, rue Kirschleger, F-67000  
Strasbourg (FR).

(74) Agents: MARTIN, Jean-Jacques et al.; Cabinet Regim-  
beau, 20, rue de Chazelles, F-75847 Paris Cedex 17 (FR).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,  
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,  
GW, ML, MR, NE, SN, TD, TG).

**Declaration under Rule 4.17:**

— of inventorship (Rule 4.17(iv)) for US only

**Published:**

— with international search report  
— before the expiration of the time limit for amending the  
claims and to be republished in the event of receipt of  
amendments

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: POLYPEPTIDE HAVING AN IMPROVED CYTOSINE DEAMINASE ACTIVITY

(57) Abstract: The present invention relates to a polypeptide possessing a CDase activity, characterized in that it is derived from a native CDase by addition of an amino acid sequence with the proviso that said polypeptide has no UPRase or Thymidine Kinase activity.

WO 2005/007857 A1